

#9



PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/979,546A

DATE: 05/15/2002
TIME: 07:30:02

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3 <110> APPLICANT: ITOH, YASUAKI
4      MOGI, SHINICHI
5      TANAKA, HIDEYUKI
6      OHKUBO, SHOICHI
7      OGI, KAZUHIRO
9 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDE
11 <130> FILE REFERENCE: 46342/56686
13 <140> CURRENT APPLICATION NUMBER: 09/979,546A
14 <141> CURRENT FILING DATE: 2001-11-20
16 <150> PRIOR APPLICATION NUMBER: PCT/JP00/03221
17 <151> PRIOR FILING DATE: 2000-05-19
19 <150> PRIOR APPLICATION NUMBER: JP 11-140229
20 <151> PRIOR FILING DATE: 1999-05-20
22 <160> NUMBER OF SEQ ID NOS: 71
24 <170> SOFTWARE: PatentIn Ver. 2.1
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29 <213> ORGANISM: Homo sapiens
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38 Ala Ala Ala Asp Ala Arg Gly Arg Ala Gly His Arg Ser Ala Ala Ala
39      35          40          45
41 Ser Asn Leu Ser Gly Leu Ser Leu Gln Glu Ala Gln Gln Ile Leu Asn
42      50          55          60
44 Val Ser Lys Leu Ser Pro Glu Glu Val Gln Lys Asn Tyr Glu His Leu
45      65          70          75          80
47 Phe Lys Val Asn Asp Lys Ser Val Gly Gly Ser Phe Tyr Leu Gln Ser
48      85          90          95
50 Lys Val Val Arg Ala Lys Glu Arg Leu Asp Glu Glu Leu Lys Ile Gln
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59 <212> TYPE: PRT
60 <213> ORGANISM: Homo sapiens
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63 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
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66 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
 67 20 25 30
 69 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
 70 35 40 45
 72 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
 73 50 55 60
 75 Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
 76 65 70 75 80
 78 Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val
 79 85 90 95
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 82 100 105 110
 84 Ser Ser Gln Val Leu Leu Pro Leu Leu
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 89 <211> LENGTH: 223
 90 <212> TYPE: PRT
 91 <213> ORGANISM: Homo sapiens
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 97 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
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 100 Phe His Phe Gln Thr Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
 101 35 40 45
 103 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Asp Cys Arg
 104 50 55 60
 106 Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg Gly Gln Pro Ser Met
 107 65 70 75 80
 109 Cys Gln Ala Phe Ala Ala Asp Pro Lys Ser Tyr Trp Asn Gln Ala Leu
 110 85 90 95
 112 Gln Glu Leu Arg Arg Leu His His Ala Cys Gln Gly Ala Pro Val Leu
 113 100 105 110
 115 Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln Ala His Met Gln Gln
 116 115 120 125
 118 Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro Asn Gln Gln Pro Glu
 119 130 135 140
 121 Ala Gly Thr Pro Ser Leu Ser Pro Lys Ala Thr Val Lys Leu Thr Gly
 122 145 150 155 160
 124 Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu Leu Gly Lys Ala Lys
 125 165 170 175
 127 Pro Thr Thr Gly Pro Thr Ala Lys Pro Thr Gln Pro Gly Pro Arg Pro
 128 180 185 190
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 131 195 200 205
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 145 Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu
 35 40 45
 146 Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu
 50 55 60
 147 Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser
 65 70 75 80
 148 Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg
 85 90 95
 149 Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr
 100 105 110
 150 Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln
 115 120 125
 151 Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu
 130 135 140
 152 Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu
 145 150 155 160
 153 Glu Glu Phe Glu Asp Ile Val Gly Asp Trp Tyr Phe His His Gln Glu
 165 170 175
 154 Gln Pro Leu Gln Asn Phe Leu Cys Glu Gly His Val Leu Pro Ala Ala
 180 185 190
 155 Glu Thr Ala Cys Leu Gln Glu Thr Trp Thr Gly Lys Glu Ile Thr Asp
 195 200 205
 156 Gly Glu Glu Lys Thr Glu Gly Glu Glu Gln Glu Glu Glu Glu Glu
 210 215 220
 157 Glu Glu Glu Glu Gly Gly Asp Lys Met Thr Lys Thr Gly Ser His
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 158 Pro Lys Leu Asp Arg Glu Asp Leu
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 159 <210> SEQ ID NO: 5
 160 <211> LENGTH: 173
 161 <212> TYPE: PRT
 162 <213> ORGANISM: Homo sapiens
 163 <400> SEQUENCE: 5
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 1 5 10 15
 165 Ser Leu Gly Leu Asn Asp Leu Asn Val Ser Pro Pro Glu Leu Thr Val
 20 25 30
 166 His Val Gly Asp Ser Ala Leu Met Gly Cys Val Phe Gln Ser Thr Glu
 35 40 45
 167 Asp Lys Cys Ile Phe Lys Ile Asp Trp Thr Leu Ser Pro Gly Glu His
 50 55 60
 168 Ala Lys Asp Glu Tyr Val Leu Tyr Tyr Ser Asn Leu Ser Val Pro

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216	Asn	Asp	Gly	Ser	Leu	Leu	Leu	Gln	Asp	Val	Gln	Glu	Ala	Asp	Gln	Gly
217					100				105							110
219	Thr	Tyr	Ile	Cys	Glu	Ile	Arg	Leu	Lys	Gly	Glu	Ser	Gln	Val	Phe	Lys
220					115			120							125	
222	Lys	Ala	Val	Val	Leu	His	Val	Leu	Pro	Glu	Glu	Pro	Lys	Glu	Leu	Met
223					130			135							140	
225	Val	His	Val	Gly	Gly	Leu	Ile	Gln	Met	Gly	Cys	Val	Phe	Gln	Ser	Thr
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241	Ser	Ser	Asn	Ser	Thr	Gly	Val	Leu	Glu	Ala	Ala	Asn	Asn	Ser	Leu	Val
242					20				25							30
244	Val	Thr	Thr	Lys	Pro	Ser	Ile	Thr	Thr	Pro	Asn	Thr	Glu	Ser	Leu	
245					35			40								45
247	Gln	Lys	Asn	Val	Val	Thr	Pro	Thr	Thr	Gly	Thr	Thr	Pro	Lys	Gly	Thr
248					50			55								60
250	Ile	Thr	Asn	Glu	Leu	Leu	Lys	Met	Ser	Leu	Met	Ser	Thr	Ala	Thr	Phe
251	65				70				75							80
253	Leu	Thr	Ser	Lys	Asp	Glu	Gly	Leu	Lys	Ala	Thr	Thr	Thr	Asp	Val	Arg
254					85				90							95
256	Lys	Asn	Asp	Ser	Ile	Ile	Ser	Asn	Val	Thr	Val	Thr	Ser	Val	Thr	Leu
257					100			105								110
259	Pro	Asn	Ala	Val	Ser	Thr	Leu	Gln	Ser	Ser	Lys	Pro	Lys	Thr	Glu	Thr
260					115			120								125
262	Gln	Ser	Ser	Ile	Lys	Thr	Thr	Glu	Ile	Pro	Gly	Ser	Val	Leu	Gln	Pro
263					130			135								140
265	Asp	Ala	Ser	Pro	Ser	Lys	Thr	Gly	Thr	Leu	Thr	Ser	Ile	Pro	Val	Thr
266	145				150				155							160
268	Ile	Pro	Glu	Asn	Thr	Ser	Gln	Ser	Gln	Val	Ile	Gly	Thr	Glu	Gly	Gly
269					165			170							175	
271	Lys	Asn	Ala	Ser	Thr	Ser	Ala	Thr	Ser	Arg	Ser	Tyr	Ser	Ser	Ile	Ile
272					180			185								190
274	Leu	Pro	Val	Val	Ile	Ala	Leu	Ile	Val	Ile	Thr	Leu	Ser	Val	Phe	Val
275					195			200								205
277	Leu	Val	Gly	Leu	Tyr	Arg	Met	Cys	Trp	Lys	Ala	Asp	Pro	Gly	Thr	Pro
278					210			215							220	
280	Glu	Asn	Gly	Asn	Asp	Gln	Pro	Gln	Ser	Asp	Lys	Glu	Ser	Val	Lys	Leu
281	225				230				235							240
283	Leu	Thr	Val	Lys	Thr	Ile	Ser	His	Glu	Ser	Gly	Glu	His	Ser	Ala	Gln

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300	20 25 30		
302	Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg Glu Val Val		
303	35 40 45		
305	Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gly		
306	50 55 60		
308	Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly Ile		
309	65 70 75 80		
311	Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Glu		
312	85 90 95		
314	Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Ser		
315	100 105 110		
317	Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe		
318	115 120 125		
320	Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser		
321	130 135 140		
323	Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr		
324	145 150 155 160		
326	Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile		
327	165 170 175		
329	Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His		
330	180 185 190		
332	Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu		
333	195 200 205		
335	Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly		
336	210 215 220		
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339	225 230 235 240		
341	Leu Pro Lys		
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346	<211> LENGTH: 149		
347	<212> TYPE: PRT		
348	<213> ORGANISM: Homo sapiens		
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351	Met Lys Leu Gln Cys Val Ser Leu Trp Leu Leu Gly Thr Ile Leu Ile		
352	1 5 10 15		
354	Leu Cys Ser Val Asp Asn His Gly Leu Arg Arg Cys Leu Ile Ser Thr		
355	20 25 30		
357	Asp Met His His Ile Glu Glu Ser Phe Gln Glu Ile Lys Arg Ala Ile		

VERIFICATION SUMMARY
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